

## ABSTRACT

This invention relates to a method for controlling copolymer architecture by a two-part process.

5 In the first step, a monomer analysis is obtained from a test polymerization having constant rate co-monomer addition. In the second step a copolymer is polymerized using a co-monomer feed rate that has been adjusted based on the monomer analysis to produce a copolymer with highly controlled polymer architecture. The method can predict feeds rates to produce any desired polymer architecture from a purely random polymer to a tapered polymer. The method works for terpolymers  
10 as well as copolymers.

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